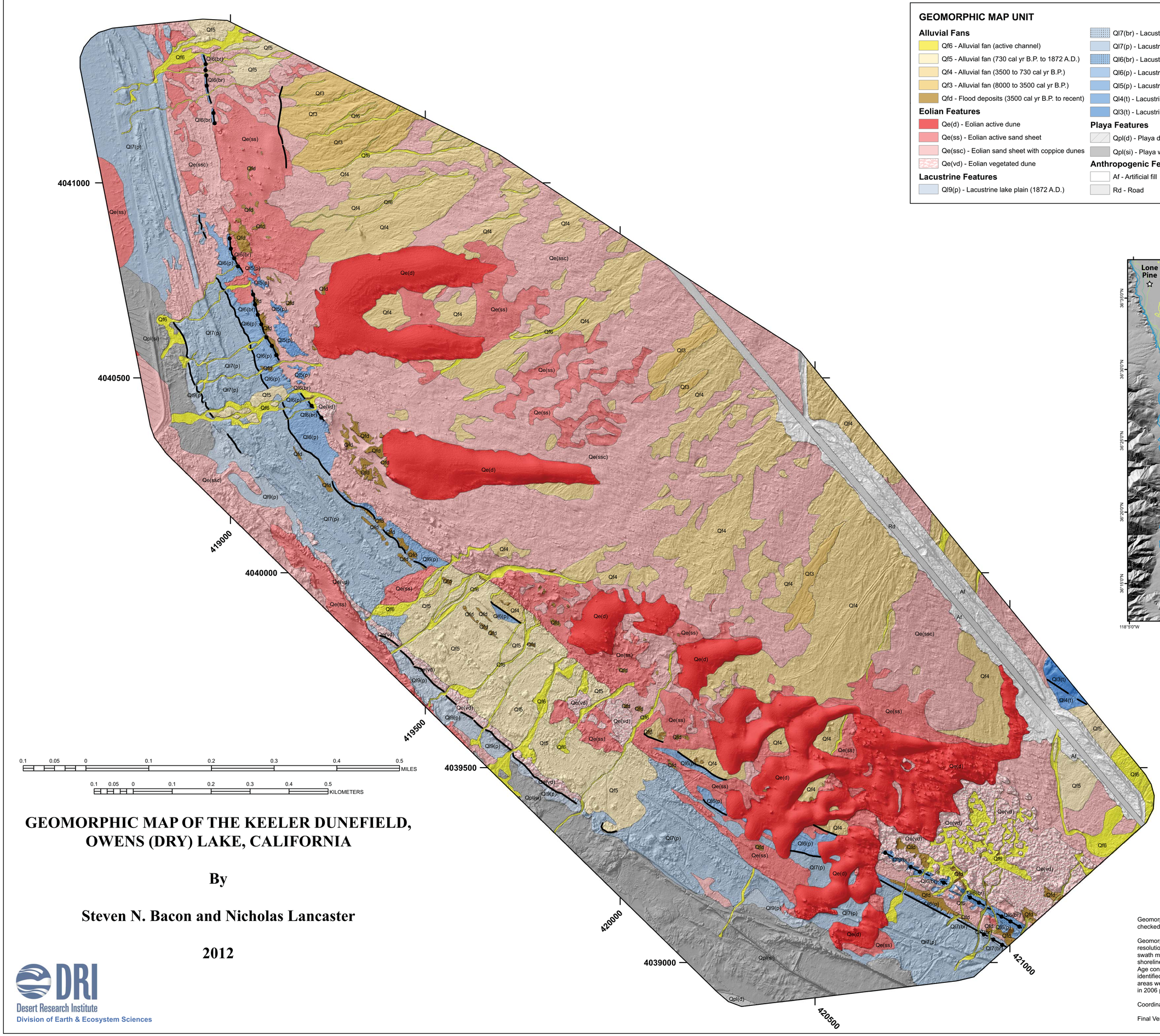


GEOMORPHIC MAP UNIT

Alluvial Fans

- Qf6 - Alluvial fan (active channel)
- Qf5 - Alluvial fan (730 cal yr B.P. to 1872 A.D.)
- Qf4 - Alluvial fan (3500 to 730 cal yr B.P.)
- Qf3 - Alluvial fan (8000 to 3500 cal yr B.P.)
- Qfd - Flood deposits (3500 cal yr B.P. to recent)

Eolian Features

- Qe(d) - Eolian active dune
- Qe(ss) - Eolian active sand sheet
- Qe(ssc) - Eolian sand sheet with coppice dunes
- Qe(vd) - Eolian vegetated dune

Lacustrine Features

- Ql9(p) - Lacustrine lake plain (1872 A.D.)
- Ql7(br) - Lacustrine beach ridge, 1101 m (730 cal yr B.P. to 1872 A.D.)
- Ql7(p) - Lacustrine lake plain (730 cal yr B.P. to 1872 A.D.)
- Ql6(br) - Lacustrine beach ridge, 1103 m (900-730 cal yr B.P.)
- Ql6(p) - Lacustrine lake plain (900-730 cal yr B.P.)
- Ql5(p) - Lacustrine lake plain (3500 cal yr B.P.)
- Ql4(t) - Lacustrine terrace, 1120 m (8000 cal yr B.P.)
- Ql3(t) - Lacustrine terrace, 1135 m (8000 cal yr B.P.)

Playa Features

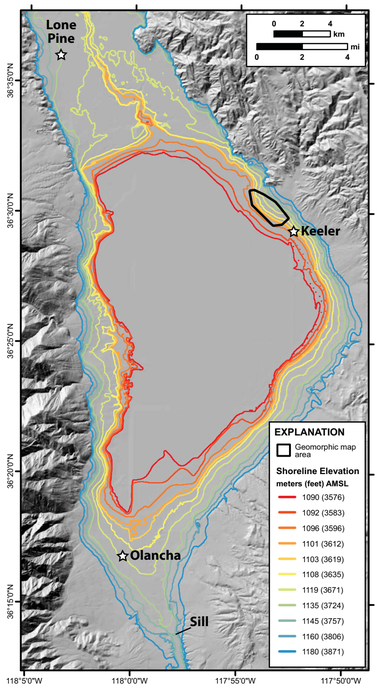
- Qpl(d) - Playa disturbed
- Qpl(si) - Playa with silt crust

Anthropogenic Features

- Af - Artificial fill
- Rd - Road

SHORELINE FEATURE

- Beach ridge crest
- Wave-cut notch



GEOMORPHIC MAP OF THE KEELER DUNEFIELD, OWENS (DRY) LAKE, CALIFORNIA

By

Steven N. Bacon and Nicholas Lancaster

2012

DRI
Desert Research Institute
Division of Earth & Ecosystem Sciences

Geomorphology mapped by Steven Bacon, P.G., C.E.G., and field checked by Nicholas Lancaster, Ph.D. and Scott Stine, Ph.D.

Geomorphic map created at a fixed scale of 1:1500 using 0.1-meter resolution aerial photography and 0.5-meter resolution airborne laser swath mapping (ASLM) digital topographic data acquired in 2009. Age of shorelines from Bacon et al. (2006) and unpublished data from S. Stine. Age constraints for geomorphic units are from cross-cutting relations with identified and dated shorelines. Geomorphic features within disturbed playa areas were delineated using 1.0-meter resolution spectral imagery aquired in 2006 prior to disturbance.

Coordinate system in WGS 1984 UTM Zone 11

Final Version: November 2012